

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6:

G06F 17/60

A3 (11) International Publication Number:

WO 99/55133

(43) International Publication Date:

4 November 1999 (04.11.99)

(21) International Application Number:

PCT/NO99/00130

(22) International Filing Date:

20 April 1999 (20.04.99)

(30) Priority Data:

19981906

28 April 1998 (28.04.98)

NO

(71) Applicant (for all designated States except US): BRAND ANS [NO/NO]; Novarmen 19, N-4044 Hairsfjord (NO).

(72) Inventor; and

(75) Inventor/Applicant (for US only): SKADSEM, Sigve [NO/NO]; Novarmen 19, N-4044 Harrsfjord (NO).

(74) Agents: HÅMSØ, Borge et al.; Håmse Patentbyrå Ans, P.O. Box 171, N-4301 Sandnes (NO).

(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published

With international search report.

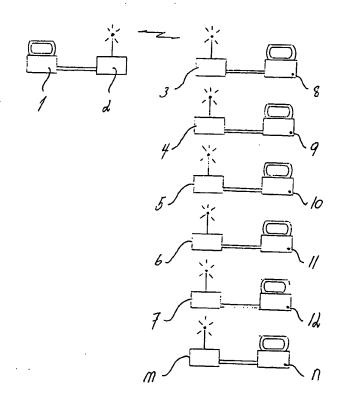
Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments. In English translation (filed in Norwegian).

(88) Date of publication of the international search report:
29 December 1999 (29.12.99)

(54) Title: INTERACTIVE COMMUNICATION NETWORK

(57) Abstract

The invention relates to a method of utilizing an interactive wireless communication network in a defined, logically divided area for a locationindependent audience with portable communication units for audiovisual messages, in which the available information depends on what position the individual communication unit has within the area, and which may map the pattern of movement of the audience. Position-related electronic information from a base unit (1) with aerial equipment (2) to an audience unpredictably wandering about, is achieved through ordinary geometric measurements from at least two aerials. For information separation purposes the area is divided into a logical grid of fields/zones identified by coordinate references, in which hierarchic information and/or links to other sources of information has been assigned to each logical field. Each communication unit (3, 4, 5, 6, n) may communicate interactively with the base unit (1) by activating transmitted information links, and is permitted through a signal selector (7, 8, 9, 10, n) to choose another or further information. The communication unit (3, 4, 5, 6, n) is provided with an alarm device, which is triggered, for example at closing time, if the unit is physically moved out of the relevant area or similar.



FOR THE PURPOSES OF INFORMATION ONLY

Codes used to identify States party to the PCT on the front pages of pamphlets publishing international applications under the PCT.

AL	Albania	ES	Spain	LS	Lesotho	SI	Slovenia
AM	Armenia	FI	Finland	LT	Lithuania	SK	Slovakia
AT	Austria	FR	France	LU	Luxembourg	SN	Senegal
ΑU	Australia	GA	Gabon	LV	Latvia	SZ	Swaziland
ΑZ	Azerbaijan	GB	United Kingdom	MC	Monaco	TD	Chad
BA	Bosnia and Herzegovina	GE	Georgia	MD	Republic of Moldova	TG	Togo
BB	Barbados	GH	Ghana	MG	Madagascar	TJ	Tajikistan
BE	Belgium	GN	Guinea	MK	The former Yugoslav	TM	Turkmenistan
BF	Burkina Faso	GR	Greece		Republic of Macedonia	TR	Turkey
BG	Bulgaria	HU	Hungary	ML	Mali	TT	Trinidad and Tobago
ВJ	Benin	Œ	Ircland	MN	Mongolia	UA	Ukraine
BR	Brazil	IL	Israel	MR	Mauritania	UG	Uganda
BY	Belarus	IS	Iceland	MW	Malawi	US	United States of America
CA	Canada	ľT	Italy	MX	Mexico	UZ	Uzbekistan
CF	Central African Republic	JP	Japan	NE	Niger	VN	Viet Nam
CG	Congo	KE	Кепуа	NL	Netherlands	YU	Yugoslavia
CH	Switzerland	KG	Kyrgyzstan	NO	Norway	ZW	Zimbabwe
CI	Côte d'Ivoire	KP	Democratic People's	NZ	New Zealand		
CM	Cameroon		Republic of Korea	PL	Poland		
CN	China	KR	Republic of Korea	PT	Portugal		
CU	Cuba	KZ	Kazakstan	RO	Romania		
CZ	Czech Republic	LC	Saint Lucia	RU	Russian Federation		
DE	Germany	LI	Liechtenstein	SD	Sudan		
DK	Denmark	LK	Sri Lanka	SE	Sweden		
EE	Estonia	LR	Liberia	SG	Singapore		

INTERNATIONAL SEARCH REPORT

International application No.

		10.710 3370	,0130					
A. CLAS	SIFICATION OF SUBJECT MATTER							
	306F 17/60 o International Patent Classification (IPC) or to both na	ational classification and IPC						
	OS SEARCHED							
Minimum d	ocumentation searched (classification system followed by	classification symbols)						
IPC6: 0	G06F, G 01B , G01S	·						
Documentat	tion searched other than minimum documentation to the	extent that such documents are included i	n the fields searched					
SE,DK,	FI,NO classes as above							
Electronic d	ata base consulted during the international search (name	of data base and, where practicable, searc	h terms used)					
C. DOCUMENTS CONSIDERED TO BE RELEVANT								
Category*	Citation of document, with indication, where app	propriate, of the relevant passages	Relevant to claim No.					
Y	WO 9411967 A1 (WEEKS, STEPHEN ET 1994 (26.05.94), page 3, lir line 5 - line 7; page 19, li	ne 2 - line 13; page 17,	1-4					
D,Y	 US 5295064 A (JOHN MALEC ET AL.) (15.03.94), column 17, line abstract), 15 March 1994 3 - line 17,	1-2					
A		3-4						
Υ .	US 5732354 A (ALAN DENIS MACDONA (24.03.98), column 1, line 5	3-4						
X Further documents are listed in the continuation of Box C. X See patent family annex.								
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" etlier document bublished after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "E" etlier document bublished on or after the international filing date "X" document of particular relevance: the claimed invention cannot be								
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other step when the document is taken alone								
"O" document referring to an oral disclosure, use, exhibition or other means "O" and document referring to an oral disclosure, use, exhibition or other means "Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination								
"P" document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family								
Date of the	Date of the actual completion of the international search Date of mailing of the international search report							
		0 3 -11- 1999						
	ober 1999	Authorized officer						
	Name and mailing address of the ISA/ Swedish Patent Office Authorized officer							
	S-102 42 STOCKHOLM	Nikolaj Hautaviita						
	No. +46 8 666 02 86	Telephone No. +46 9 782 25 00						

INTERNATIONAL SEARCH REPORT

International application No.
PCT/NO 99/00130

ategory*	Citation of document, with indication, where appropriate, of the rele	Relevant to claim N	
A	WO 9114984 A1 (KLEVER-KART, INC.), 3 October (03.10.91), abstract	1991	1-4
A	WO 9601032 A1 (TWIN-KLESTAR INVESTMENTS N.V.) 11 January 1996 (11.01.96), abstract	,	1-4
			·
			·
!	•		
			1
	<u>.</u>		
			·

INTERNATIONAL SEARCH REPORT

Information on patent family members

28/09/99

International application No. PCT/NO 99/00130

	atent document 1 in search repor	rt	Publication date		Patent family member(s)		Publication date
MO	9411967	A1	26/05/94	AU	5469794		08/06/94
				EP	0680678	A	08/11/95
US	5295064	A	15/03/94	DE	3855178	D,T	28/11/96
				DK	246089	A	19/05/89
				EP	0335931	A,B	11/10/89
				FI	892436	A	19/05/89
				AT	136378	T	15/04/96
				AU	616917		14/11/91
				AU		В	28/01/93
				AU	635169		11/03/93
				AU	636809		06/05/93
				AU	1098492		14/05/92
				AU	1098592		07/05/92
				AU	1098692		07/05/92
				AU	2521588		17/04/89
				CA	1300235	A	05/05/92
				CA		A	28/09/93
				CA	1330367		21/06/94
				JP		Ţ	26/04/90
				JP	2743340		22/04/98
				US	4973952		27/11/90
				US	5287266		15/02/94
			·	WO	8902628	Α	23/03/89
US	5732354	A	24/03/98	US	5724660	A	03/03/98
WO	9114984	A1	03/10/91	AU	7079691	A	21/10/91
WO	9601032	A1	11/01/96	AU	3075195	Α	25/01/96
				CA	2194065		11/01/96
				EP	0768014.	Α	16/04/97
				NL	9401076		01/02/96